

FIG. 1

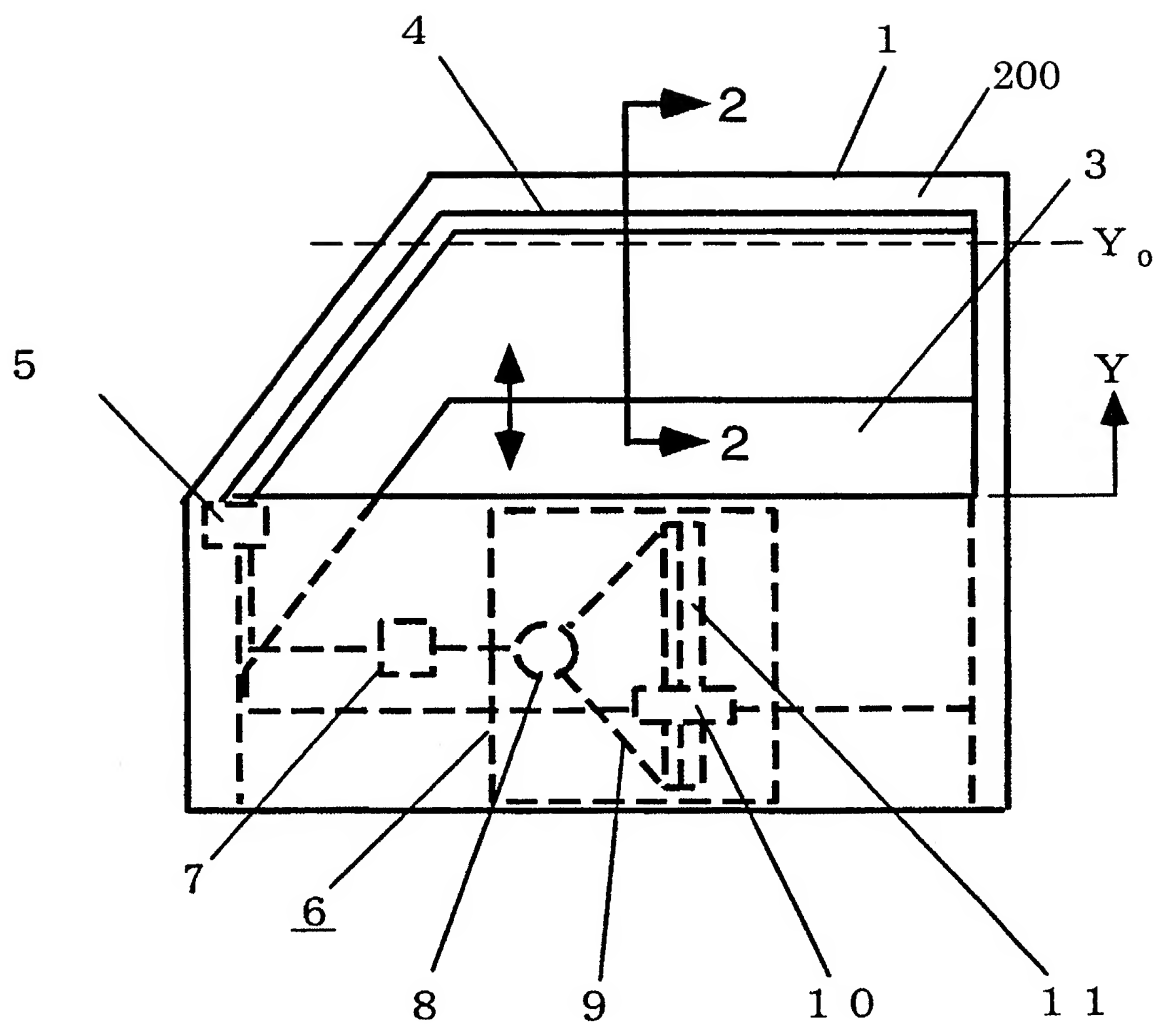
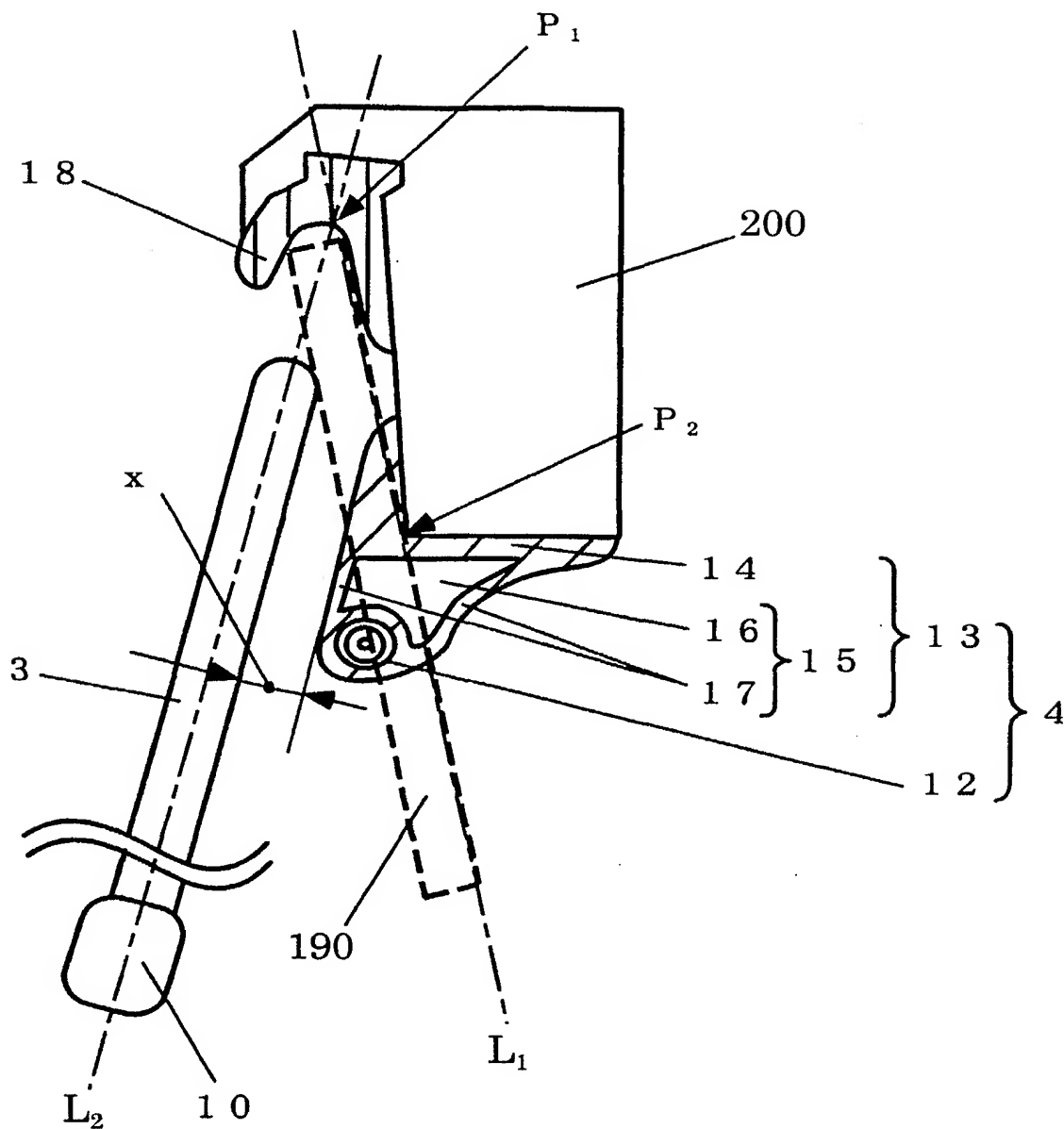
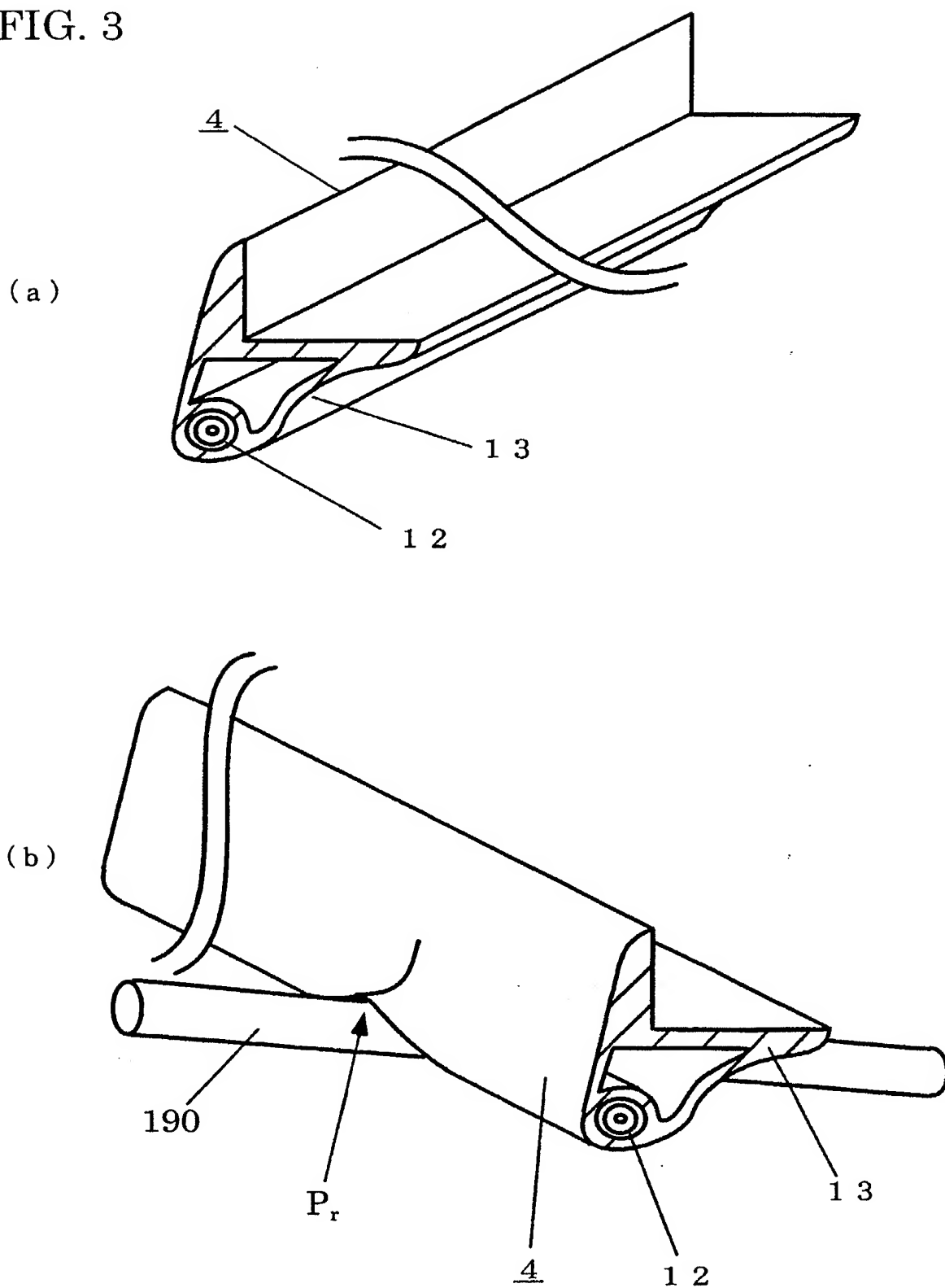


FIG. 2



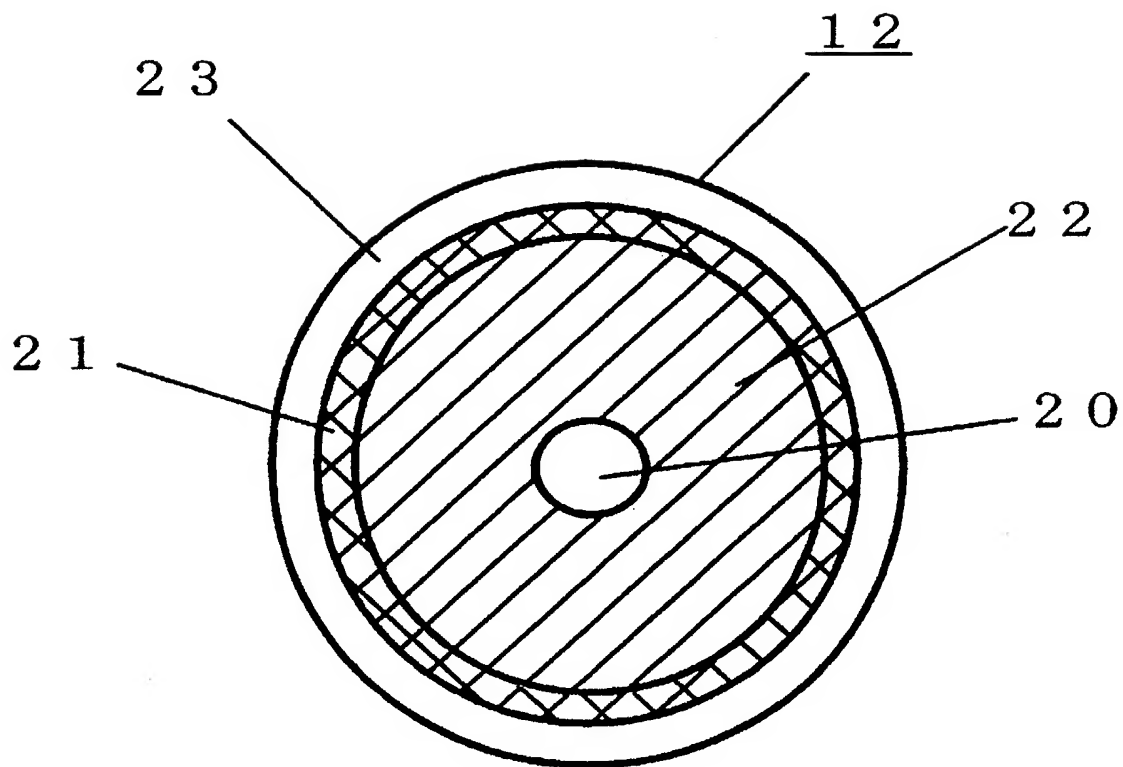
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FIG. 3



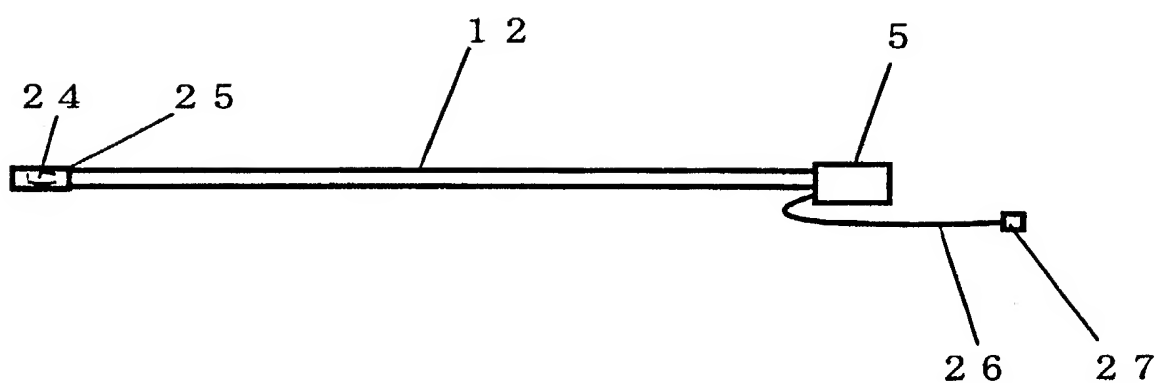
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FIG. 4



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FIG. 5



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FIG. 6

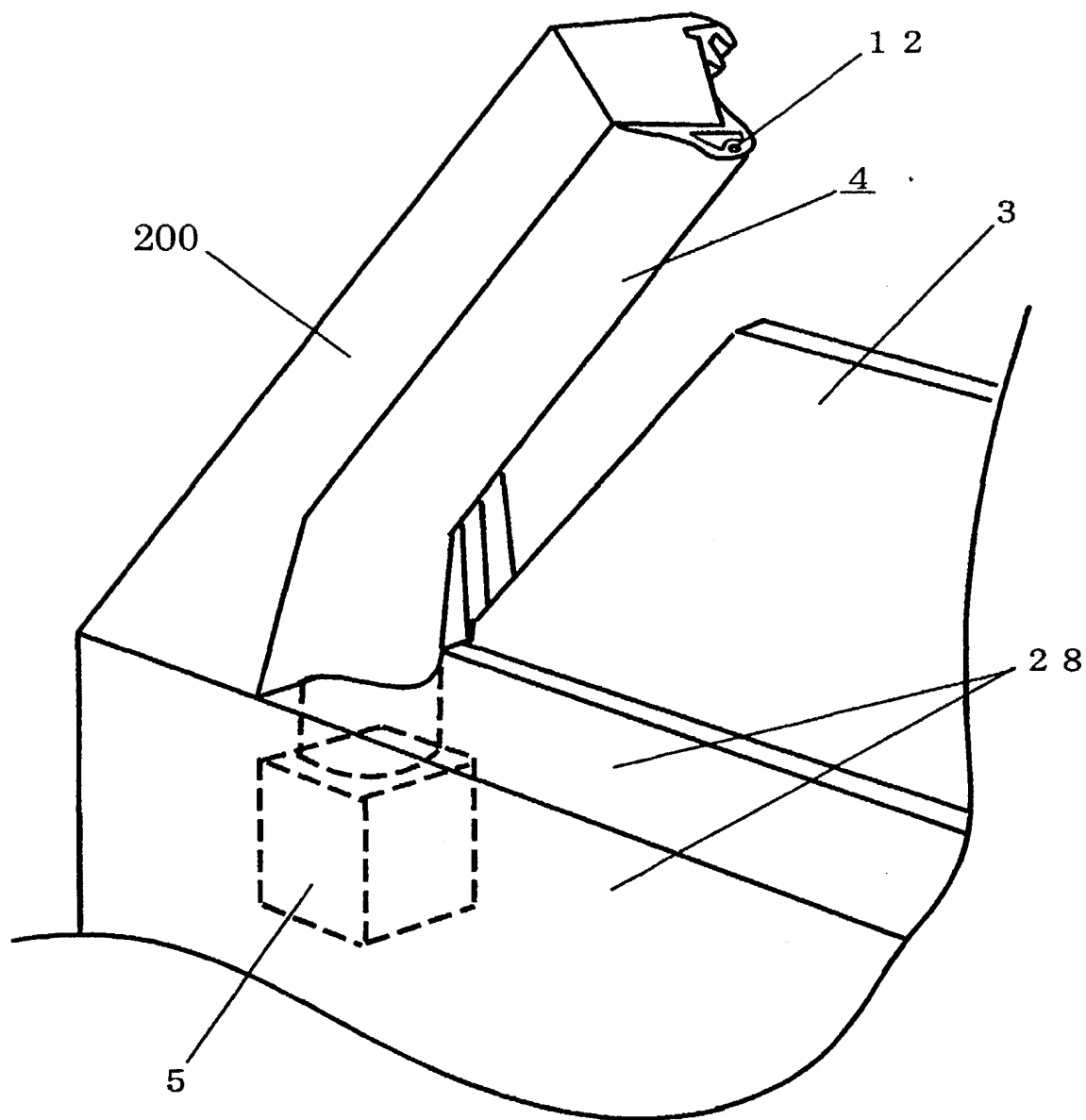
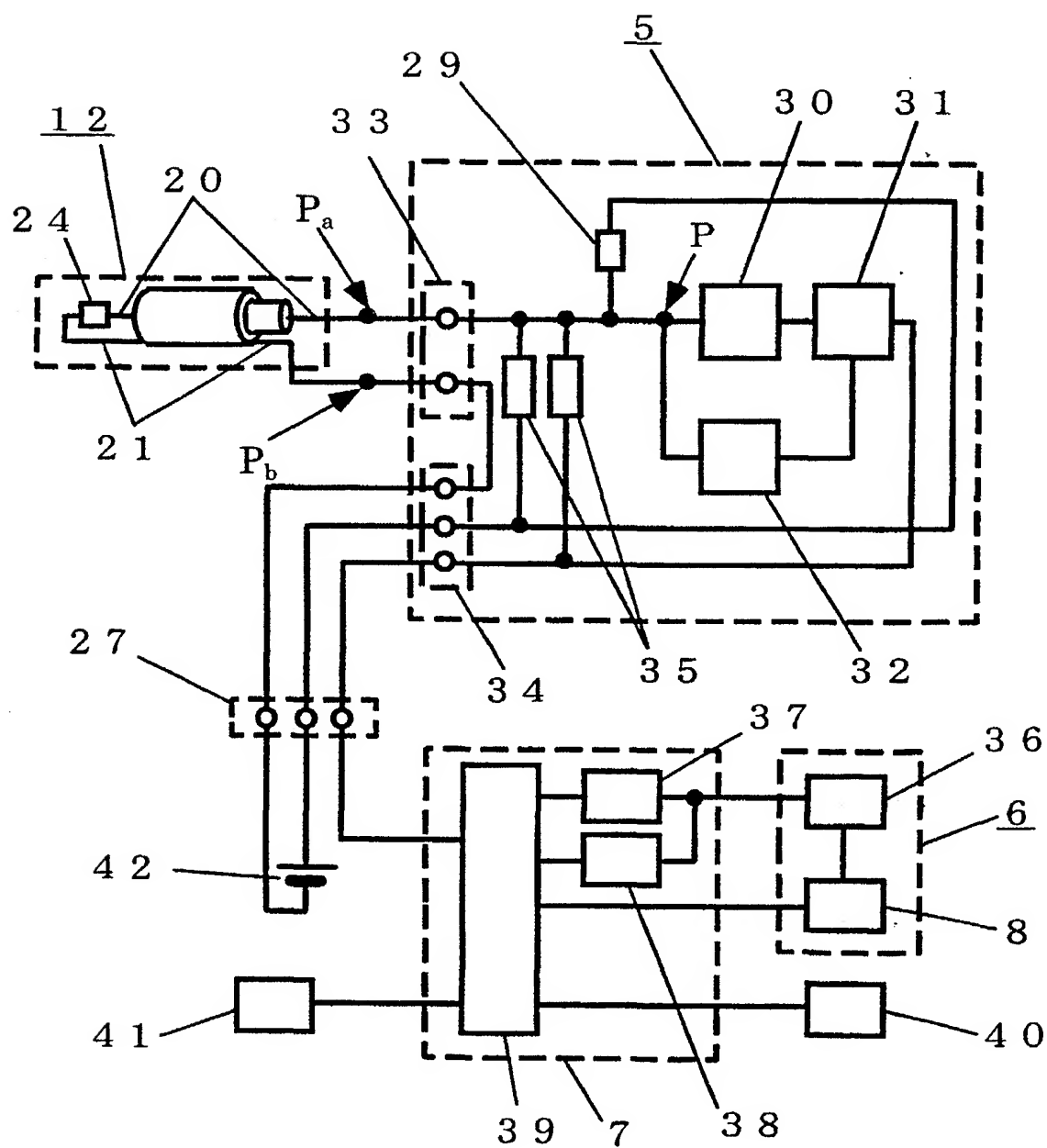
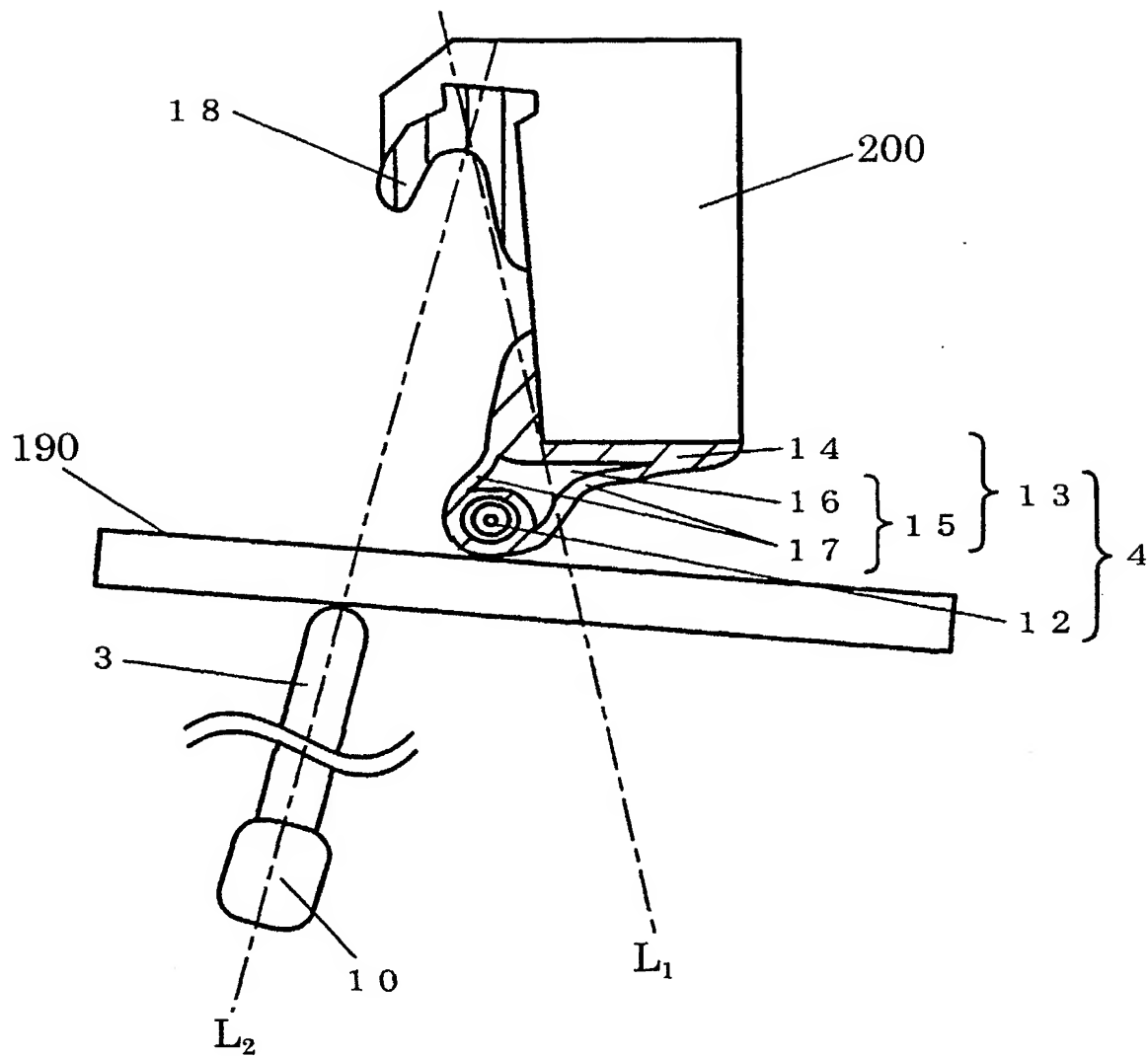
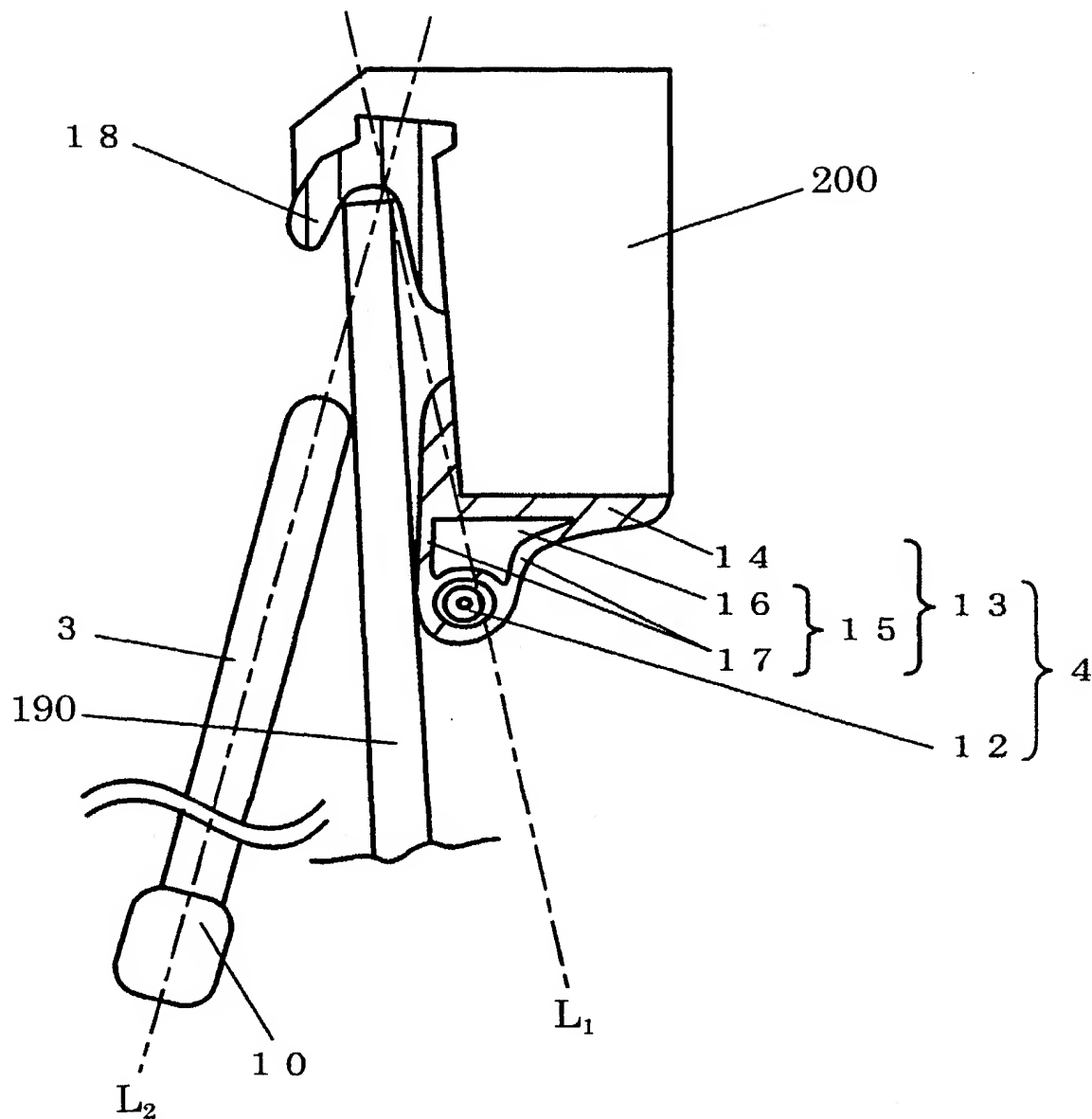


FIG. 7

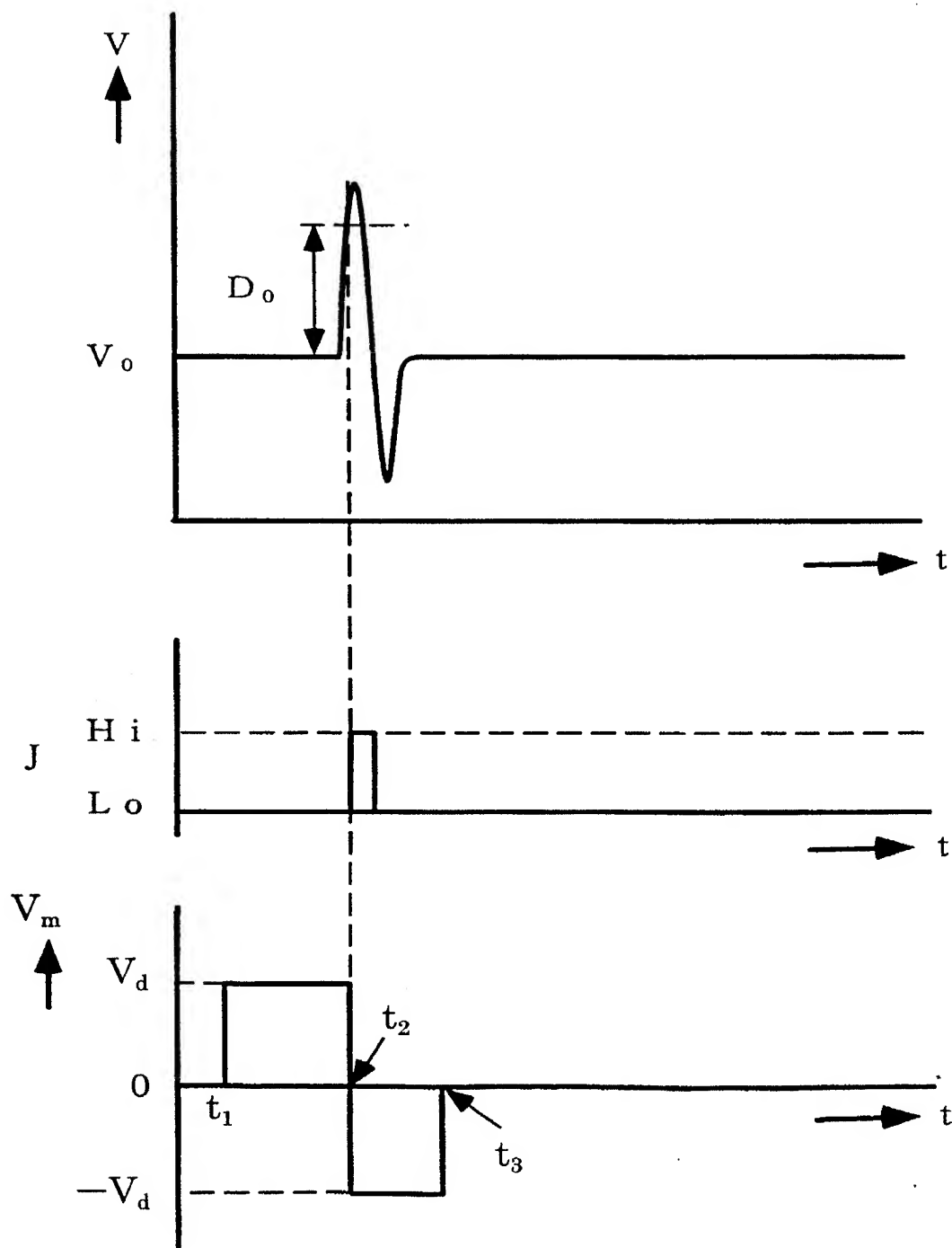






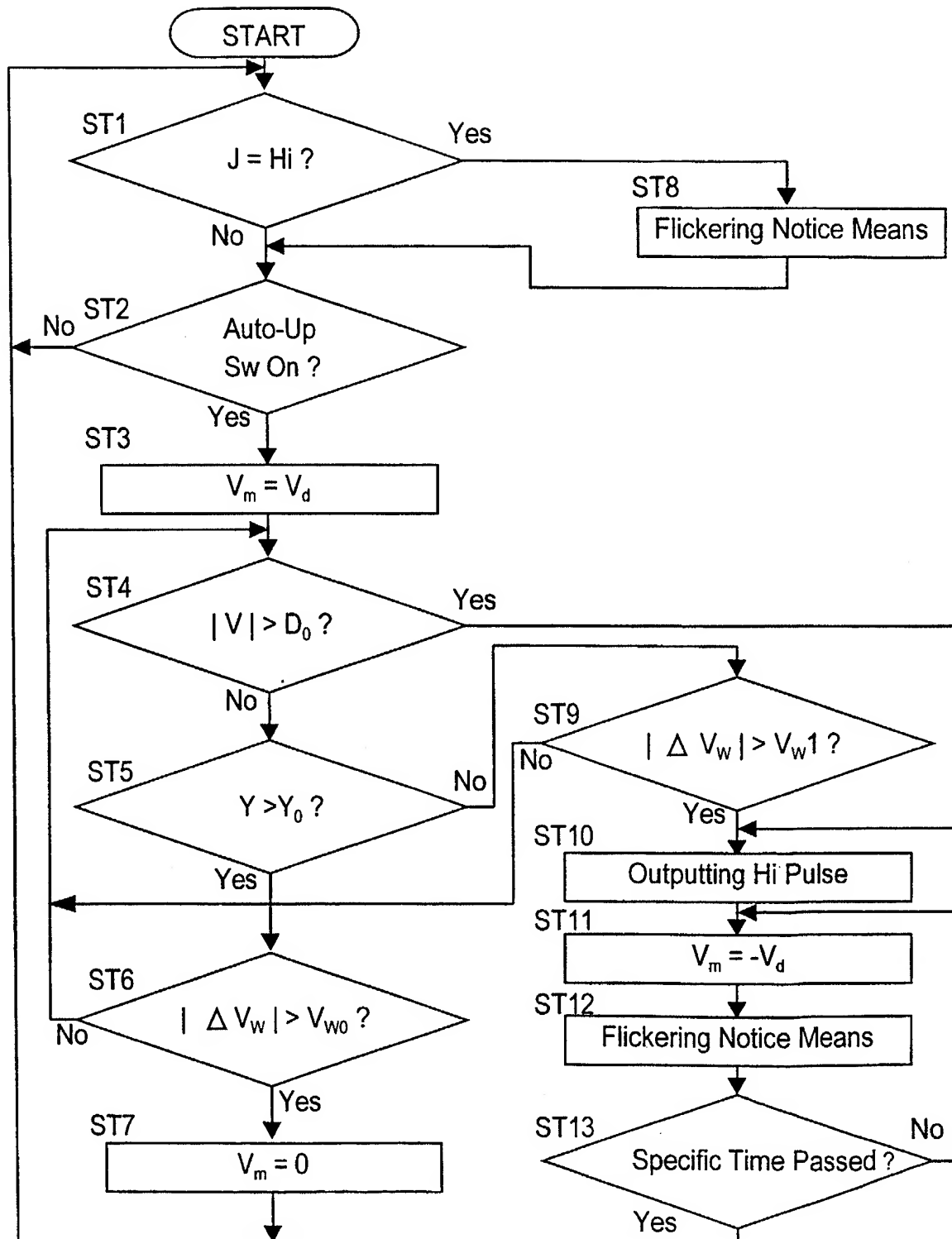
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FIG. 10



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FIG. 11



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FIG. 12

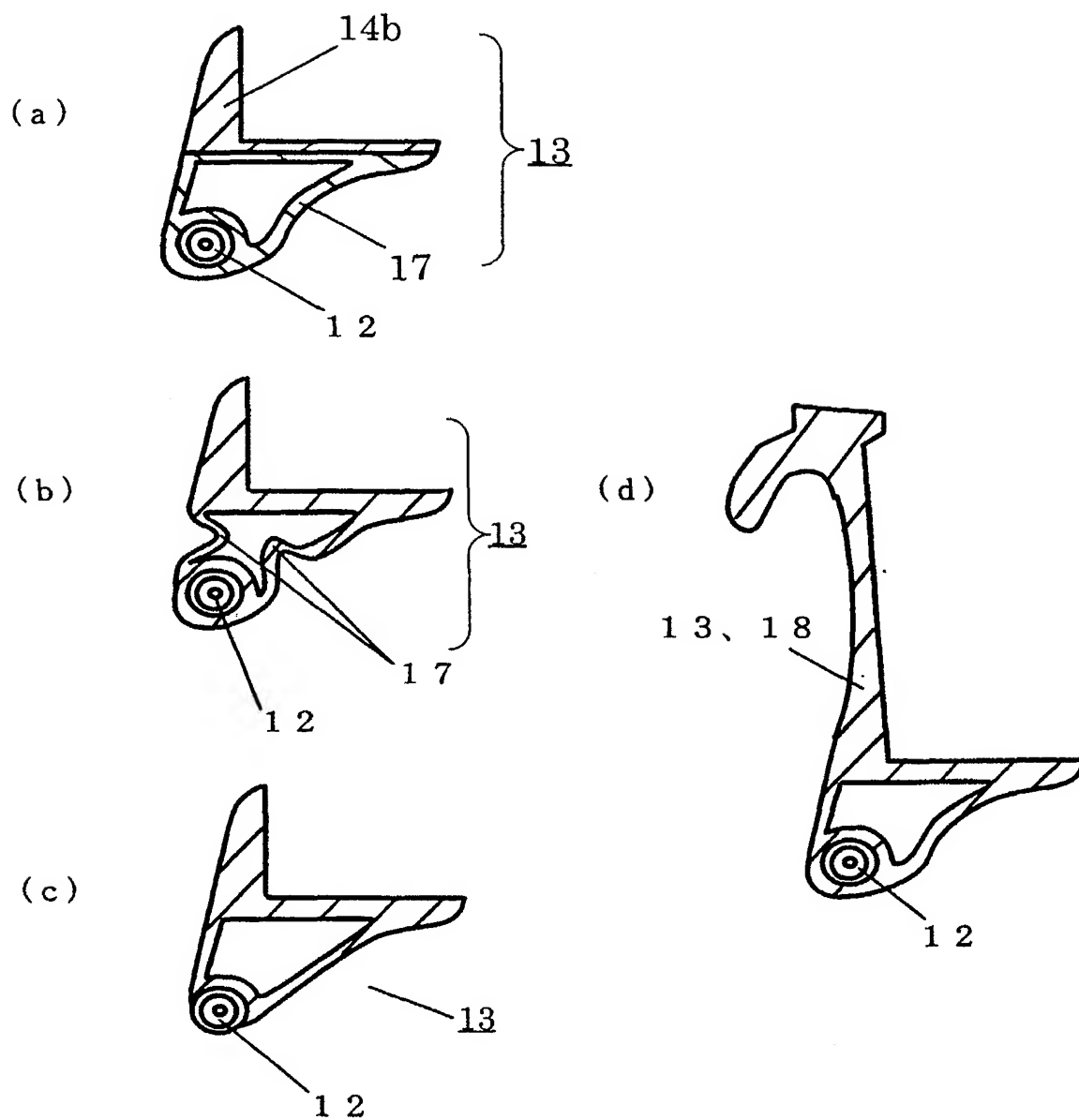
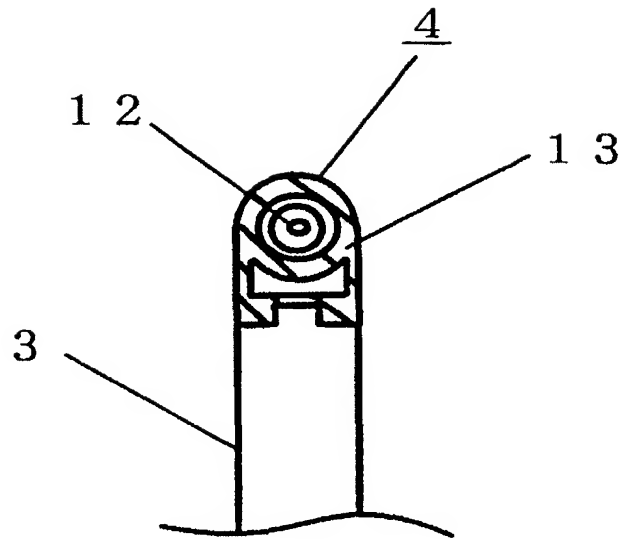


FIG. 13



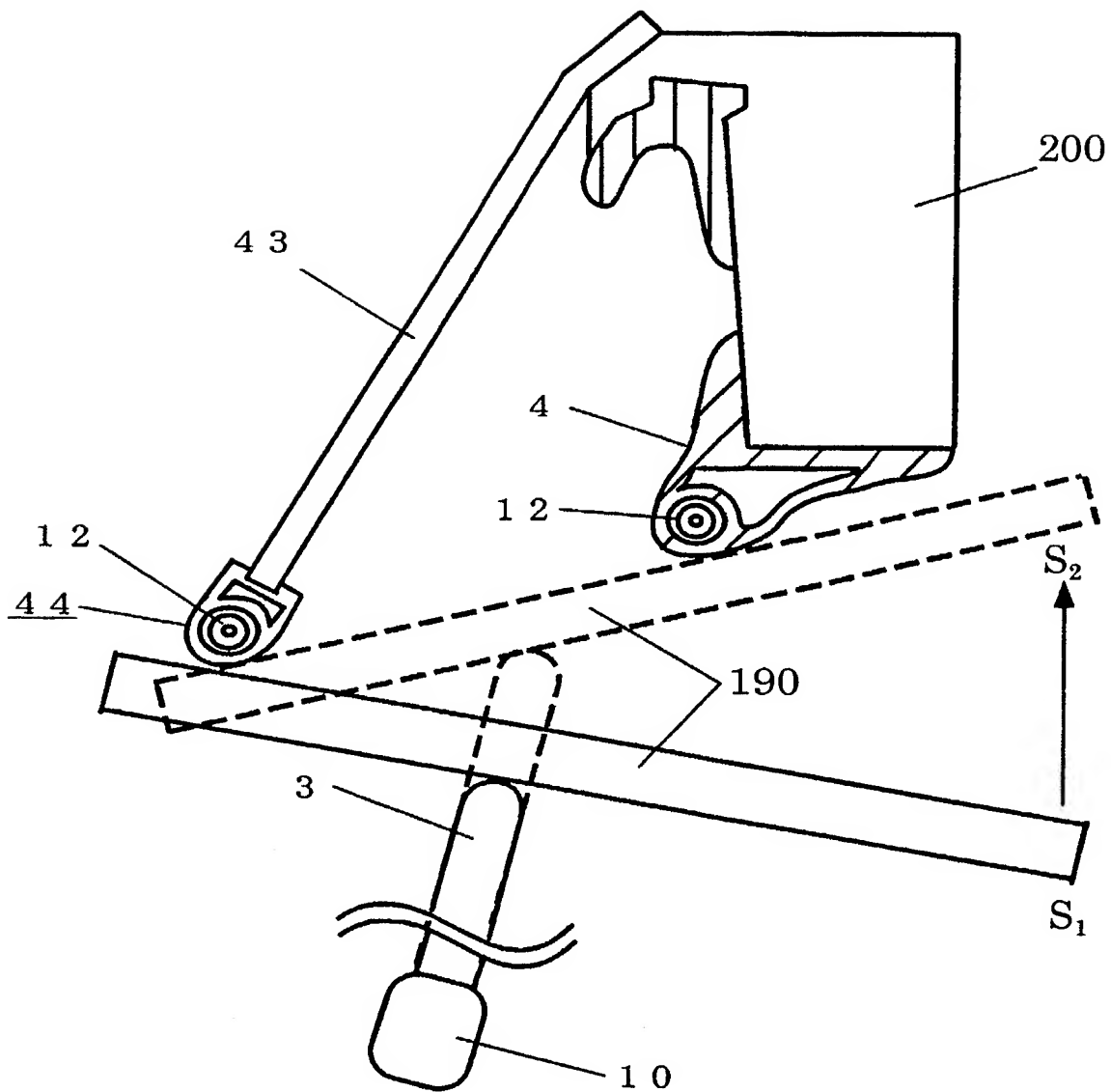


FIG. 15

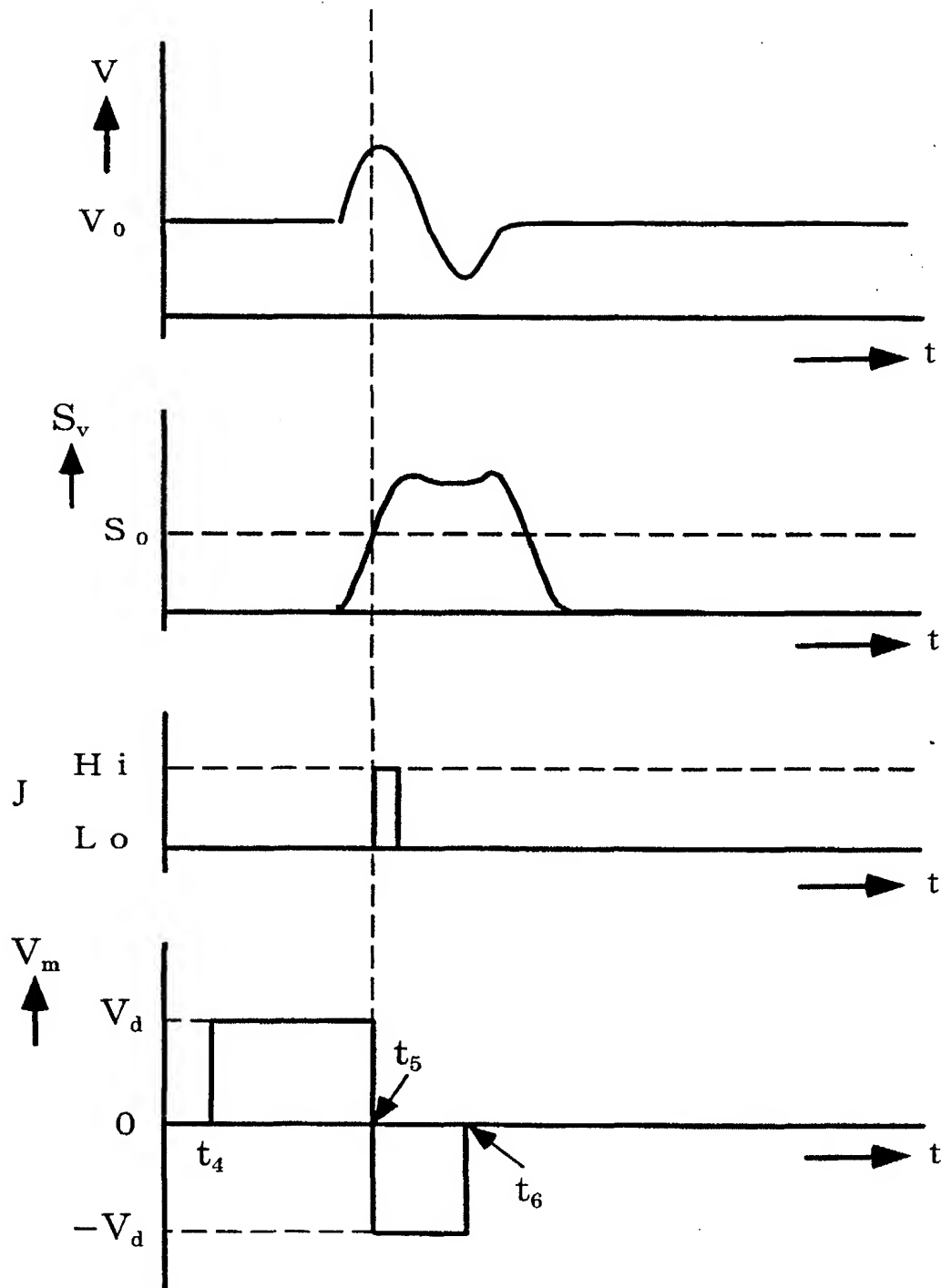
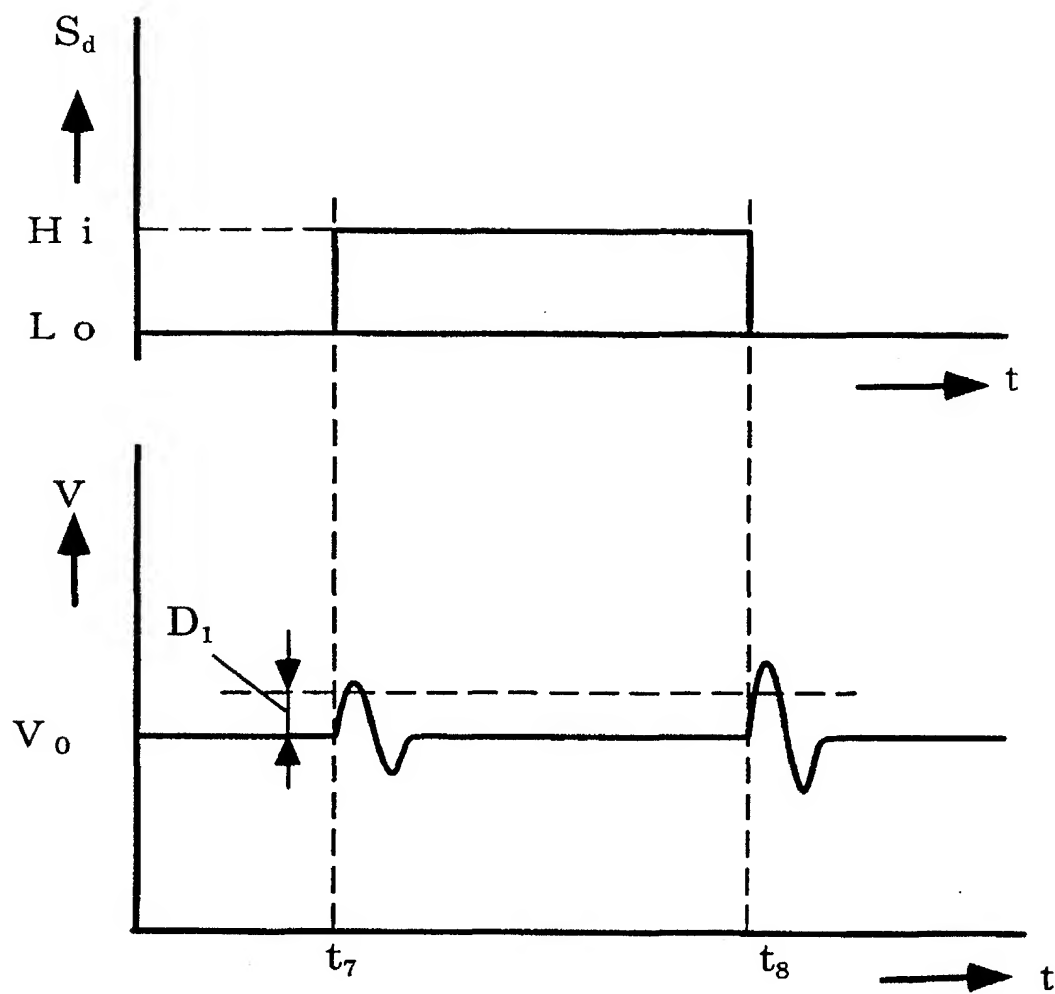


FIG. 16



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FIG. 17

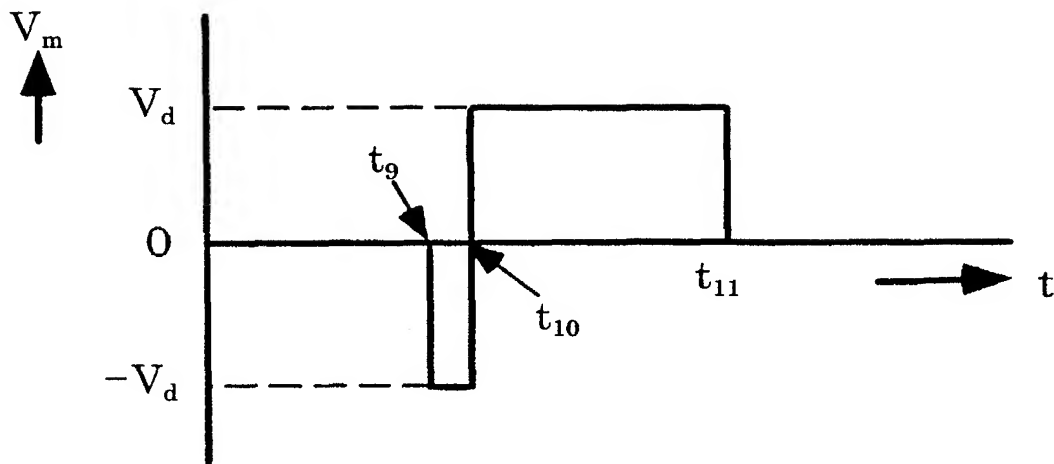
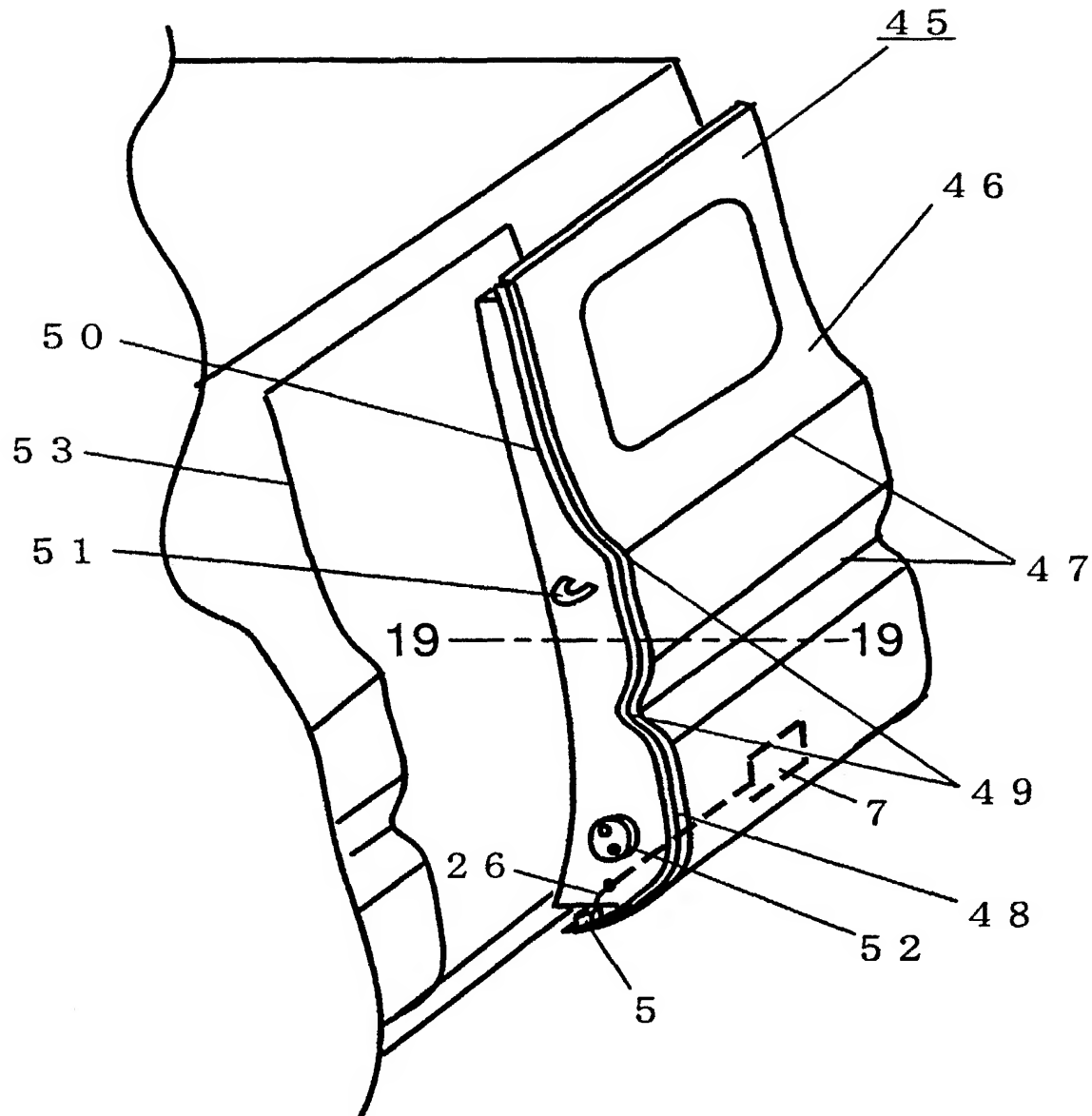


FIG. 18



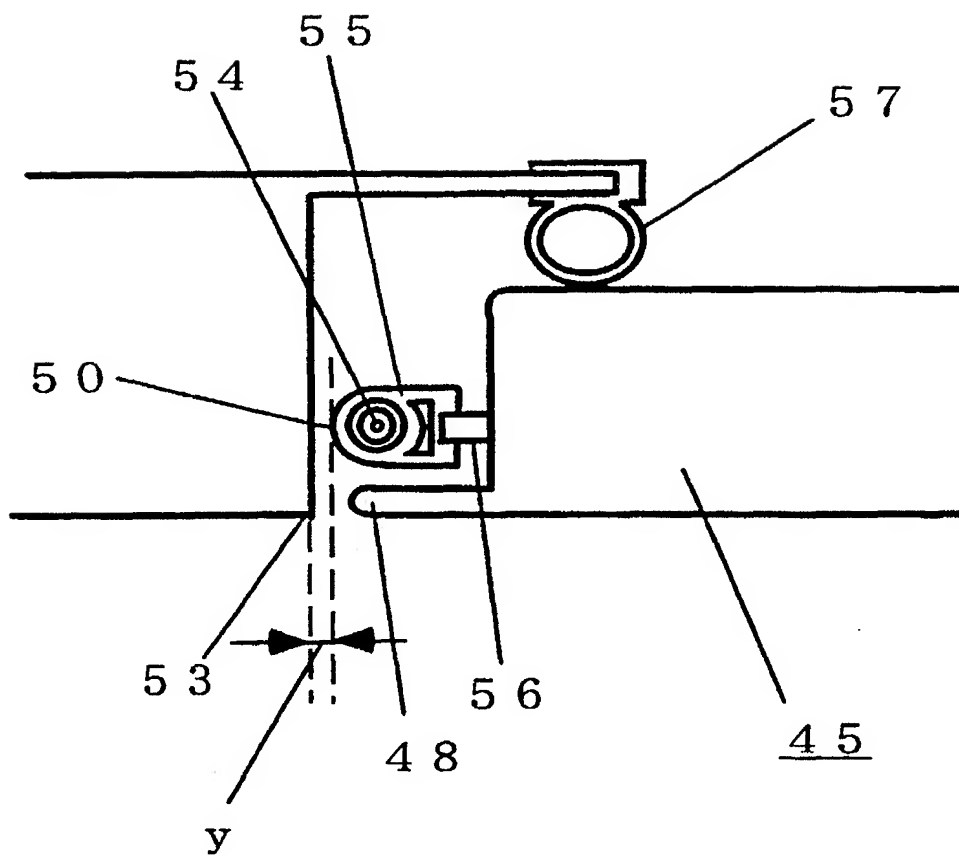


FIG. 20

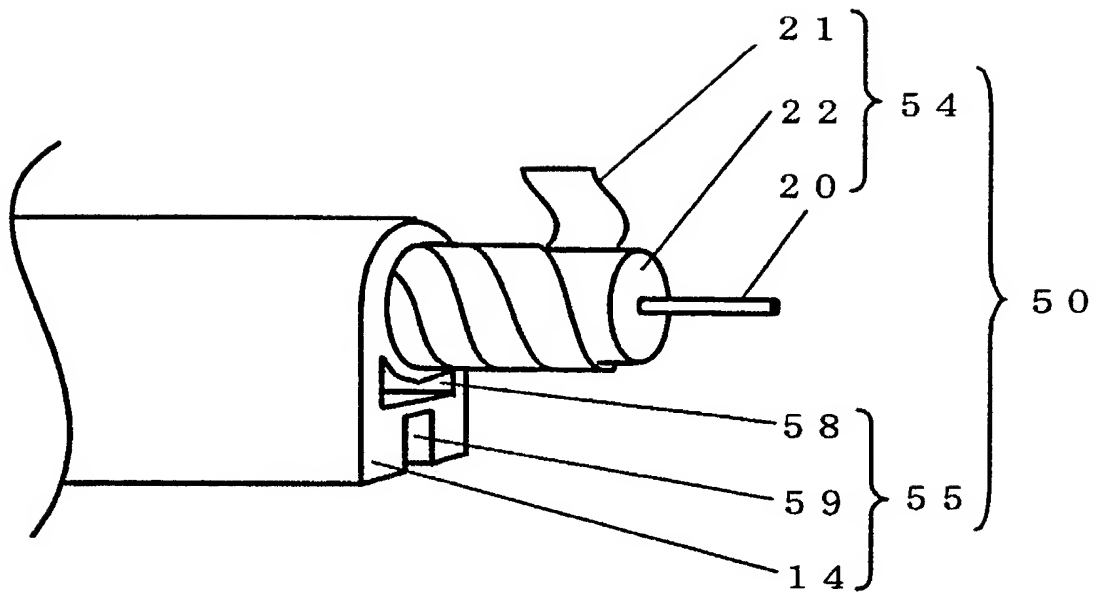


FIG. 21

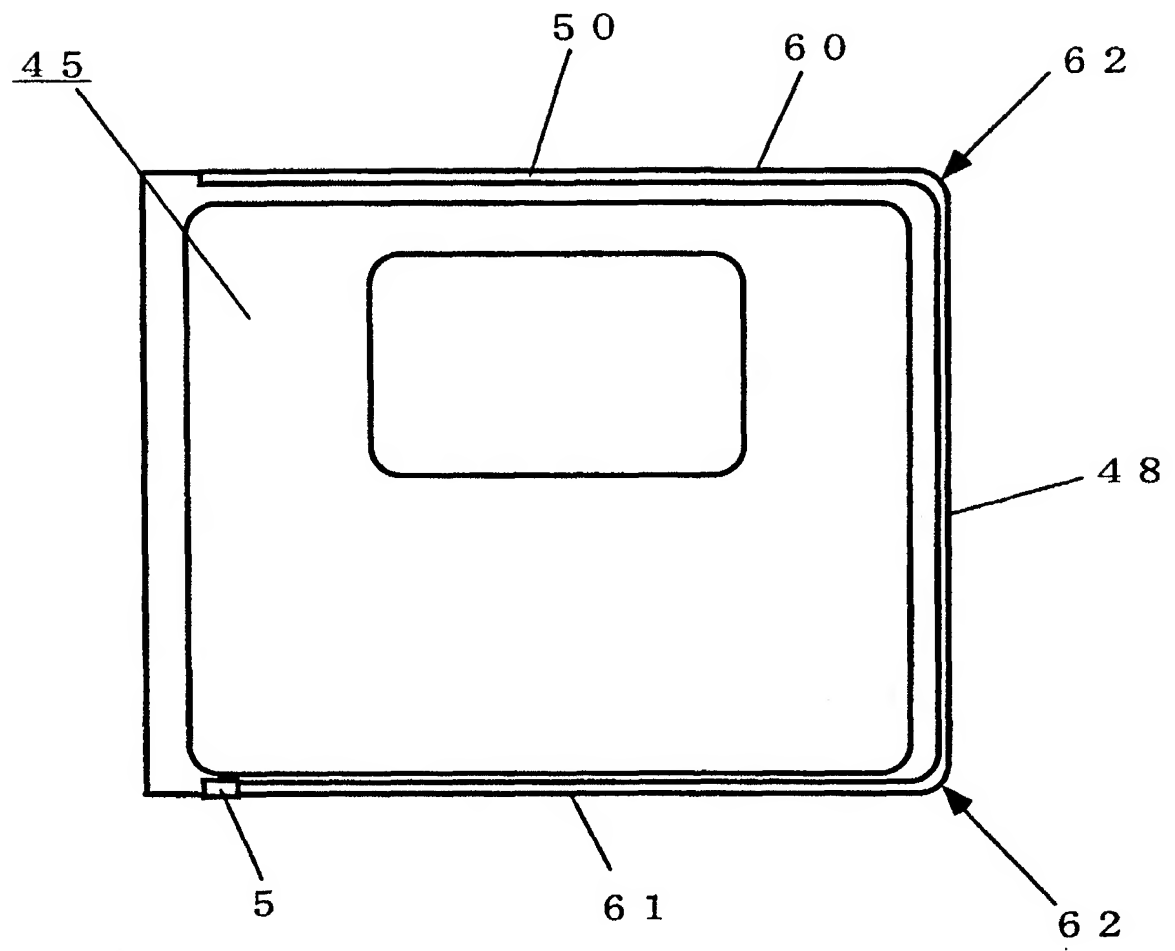


FIG. 22

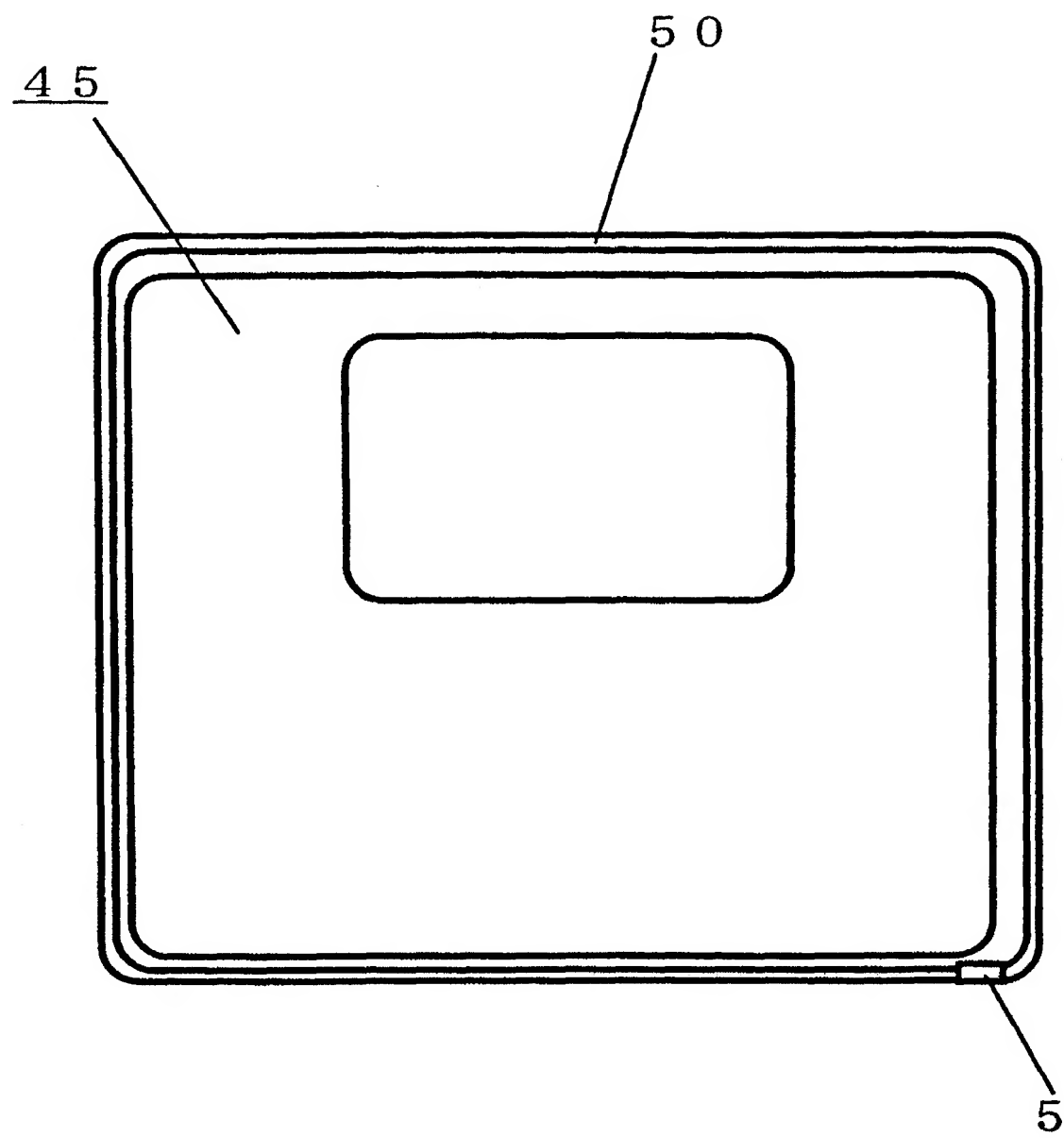
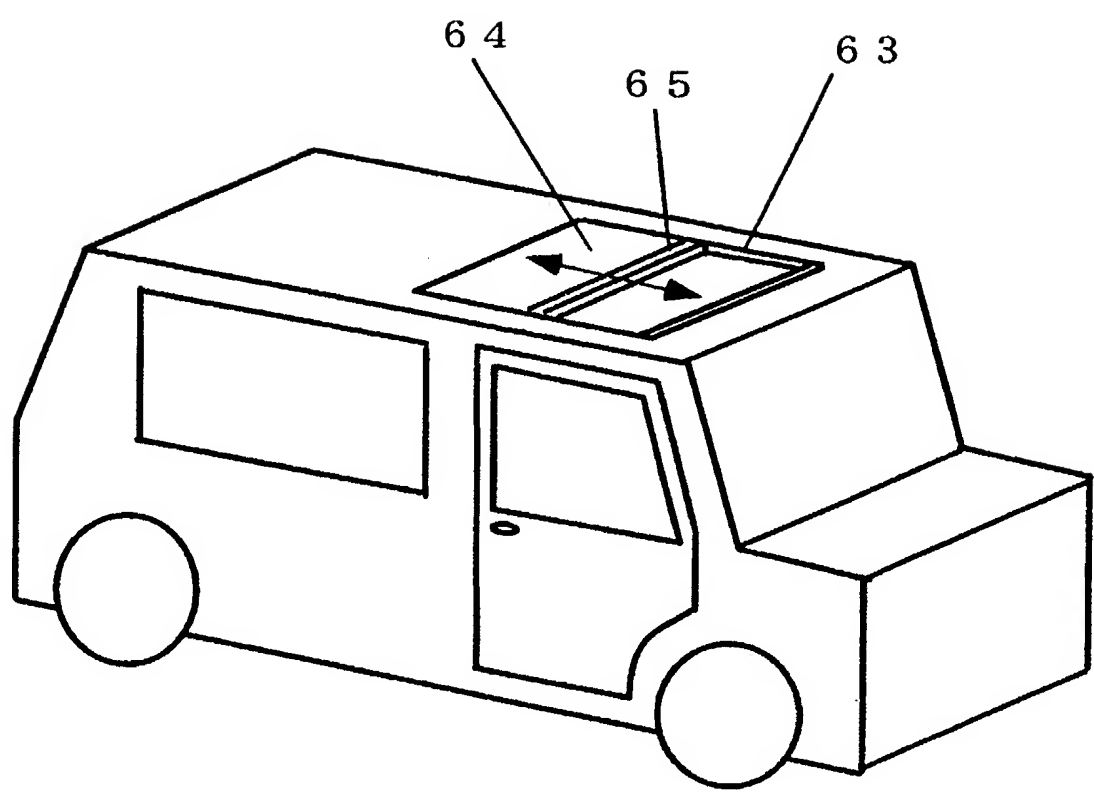
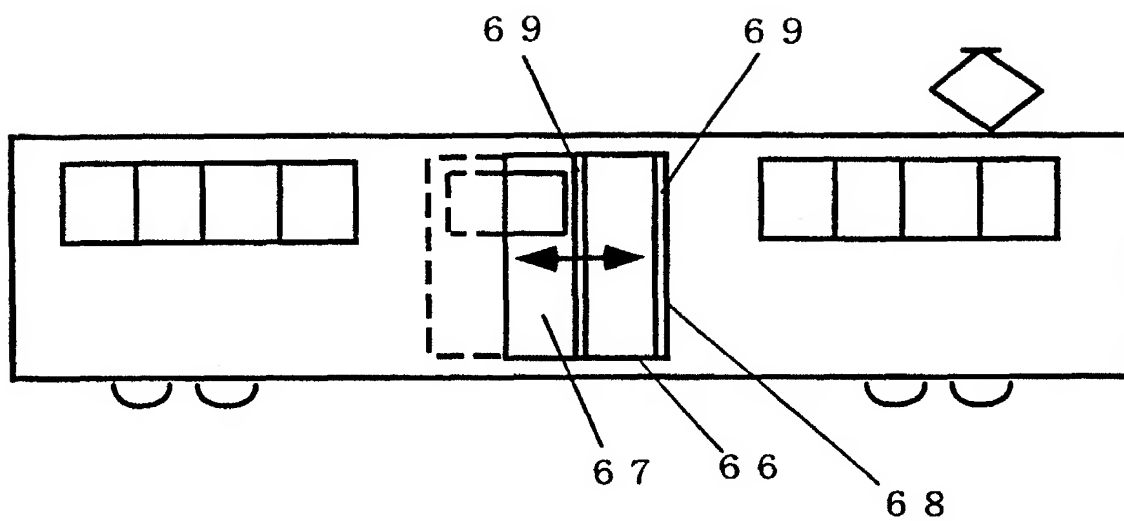


FIG. 23



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FIG. 24



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Reference Numerals

- 1 Automobile door
- 200 Window frame (opening)
- 3 Windowpane (opening-closing unit)
- 4 Pressure-sensitive sensor
- 5 Judging means
- 6 Drive means
- 7 Control means
- 8 Motor
- 9 Wire
- 10 Supporter
- 11 Guide
- 12 Piezoelectric sensor (pressure-sensitive means)
- 13 Support means
- 14 Elastic body
- 15 Deformation amplifying portion
- 16 Hollow portion
- 17 Side wall (vibration damping portion)
- 18 Weather strip
- 190 Object
- 20 Central electrode (electrode for leading out signal)
- 21 Outside electrode (electrode for leading out signal)
- 22 Composite piezoelectric layer (composite piezoelectric material)
- 23 Covering layer
- 24 Resistor for detecting breakage (discharge unit)
- 25 End
- 26 Output cable
- 27 Connector
- 28 Door member
- 29 Resistor for dividing voltage
- 30 Filter
- 31 Judging unit
- 32 Abnormality judging unit

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- 33 Signal input unit
- 34 Signal output unit
- 35 Bypass unit
- 36 Hall element
- 37 Position detecting means
- 38 Contact judging unit of opening-closing unit
- 39 Controller
- 40 Notice means
- 41 Opening-closing switch
- 42 Battery
- 43 Side visor
- 44 Pressure-sensitive sensor
- 45 Slide door (opening-closing unit)
- 46 Door panel
- 47 Door undulated portion
- 48 Door vertical end
- 49 Vertical end bent portion
- 50 Pressure-sensitive sensor
- 51 Door lock
- 52 Electrode for detecting opening and closing
- 53 Body opening (opening)
- 54 Piezoelectric sensor
- 55 Support means
- 56 Pressure-sensitive sensor
- 57 Seal
- 58 Hollow portion
- 59 Fixing groove
- 60 Door upper end
- 61 Door lower end
- 62 Door corner
- 63 Sunroof
- 64 Windowpane (opening-closing unit)
- 65 Pressure-sensitive sensor
- 66 Automated door

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- 67 Door (opening-closing unit)
- 68 Door opening (opening)
- 69 Pressure-sensitive sensor